

## Section II-iii-A

### Soil Erodibility (K) Factor and Soil-loss Tolerance (T) Value

#### General

Soil erodibility factors (K) and soil-loss tolerances (T) are used in an equation that predicts the amount of soil loss resulting from rainfall erosion of cropland. The soil-loss prediction procedure is useful to guide the selection of practices for soil and water conservation. The procedure is outlined and illustrated in Agricultural Handbook No. 537.

#### Soil Erodibility (K) Factor

The soil erodibility factor "K" indicates the susceptibility of a soil to sheet and rill erosion by water. Soil properties that influence erodibility by water are: (1) Those that affect infiltration rate, movement of water through the soil, and water storage capacity; and (2) those that resist dispersion, splashing, abrasion, and transporting forces from rainfall and runoff. Soil properties that are most important are percent silt plus very fine sand, percent organic matter, percent sand coarser than very fine sand, structure, and permeability. "Kw" is an erodibility factor which quantifies the susceptibility of the soil particles to detachment and movement by water, this factor is adjusted for the effect of rock fragments. "Kf" is an erodibility factor which quantifies the susceptibility of the soil particles to detachment by water.

#### Soil-loss Tolerance (T) Factor

The soil-loss tolerance factor "T" is an estimate of the maximum annual rate of soil erosion that can occur over a sustained period without affecting crop productivity. The rate is expressed in tons of soil loss per acre per year. Rates of 1 through 5 are used, depending upon soil properties and prior erosion.

Soil-loss tolerances were subjectively evaluated, based on the following general guides:

1. Maintenance of an adequate rooting depth for crop production.
2. Potential crop yield reduction.
3. Maintenance of water control structures affected by sedimentation.
4. Prevention of gullies.
5. Value of nutrients lost.

#### Wind Erosion

Potential erodibilty from wind erosion is estimated by multiplying the following factors of the Wind Erosion Equation (WEQ).

1. Climatic characterization of windspeed and surface soil moisture (C)
2. The susceptibility of the soil to wind erosion (I)

The erodibility index for wind erosion is represented by the formula CI/T. A soil map unit is highly erodible if the CI/T value equals or exceed 8.

## Physical Properties of the Soils

Aroostook County, Maine, Southern Part

Entries under "Erosion Factors--T" apply to the entire profile. Entries under "Wind Erodibility Group" and "Wind Erodibility Index" apply only to the surface layer. Absence of an entry indicates that data were not estimated.

| Map Symbol<br>and Soil Name | Depth | Sand | Silt | Clay  | Moist Bulk Density | Saturated Hydraulic Conductivity | Available Water Capacity | Linear Extensi- | Organic Matter | Erosion Factors |     |     | Wind Erodibility Group | Wind Erodibility Index |
|-----------------------------|-------|------|------|-------|--------------------|----------------------------------|--------------------------|-----------------|----------------|-----------------|-----|-----|------------------------|------------------------|
|                             |       |      |      |       |                    |                                  |                          |                 |                | In              | Pct | Pct | Kw Kw                  | Kf Kf                  |
| CgA:<br>Caribou             | 0-9   | ---  | ---  | 10-19 | 1.00-1.25          | 4.23-14.11                       | 0.20-0.26                | 0.0-2.9         | 3.0-8.0        | .24             | .32 | 5   | 7                      | 38                     |
|                             | 9-26  | ---  | ---  | 18-23 | 1.10-1.40          | 4.23-14.11                       | 0.15-0.26                | 0.0-2.9         | 0.5-6.0        | .24             | .28 |     |                        |                        |
|                             | 26-60 | ---  | ---  | 18-23 | 1.35-1.60          | 4.23-14.11                       | 0.15-0.25                | 0.0-2.9         | 0.0-1.0        | .24             | .28 |     |                        |                        |
| CgB:<br>Caribou             | 0-9   | ---  | ---  | 10-19 | 1.00-1.25          | 4.23-14.11                       | 0.20-0.26                | 0.0-2.9         | 3.0-8.0        | .24             | .32 | 5   | 7                      | 38                     |
|                             | 9-26  | ---  | ---  | 18-23 | 1.10-1.40          | 4.23-14.11                       | 0.15-0.26                | 0.0-2.9         | 0.5-6.0        | .24             | .28 |     |                        |                        |
|                             | 26-60 | ---  | ---  | 18-23 | 1.35-1.60          | 4.23-14.11                       | 0.15-0.25                | 0.0-2.9         | 0.0-1.0        | .24             | .28 |     |                        |                        |
| CgC:<br>Caribou             | 0-9   | ---  | ---  | 10-19 | 1.00-1.25          | 4.23-14.11                       | 0.20-0.26                | 0.0-2.9         | 3.0-8.0        | .24             | .32 | 5   | 7                      | 38                     |
|                             | 9-21  | ---  | ---  | 18-23 | 1.10-1.40          | 4.23-14.11                       | 0.15-0.26                | 0.0-2.9         | 0.5-6.0        | .24             | .28 |     |                        |                        |
|                             | 21-60 | ---  | ---  | 18-23 | 1.35-1.60          | 4.23-14.11                       | 0.15-0.25                | 0.0-2.9         | 0.0-1.0        | .24             | .28 |     |                        |                        |
| CgD:<br>Caribou             | 0-9   | ---  | ---  | 10-19 | 1.00-1.25          | 4.23-14.11                       | 0.20-0.26                | 0.0-2.9         | 3.0-8.0        | .24             | .32 | 5   | 7                      | 38                     |
|                             | 9-26  | ---  | ---  | 18-23 | 1.10-1.40          | 4.23-14.11                       | 0.15-0.26                | 0.0-2.9         | 0.5-6.0        | .24             | .28 |     |                        |                        |
|                             | 26-60 | ---  | ---  | 18-23 | 1.35-1.60          | 4.23-14.11                       | 0.15-0.25                | 0.0-2.9         | 0.0-1.0        | .24             | .28 |     |                        |                        |
| CgE:<br>Caribou             | 0-4   | ---  | ---  | 10-19 | 1.00-1.25          | 4.23-14.11                       | 0.20-0.26                | 0.0-2.9         | 3.0-8.0        | .24             | .32 | 5   | 7                      | 38                     |
|                             | 4-26  | ---  | ---  | 18-23 | 1.10-1.40          | 4.23-14.11                       | 0.15-0.26                | 0.0-2.9         | 0.5-6.0        | .24             | .28 |     |                        |                        |
|                             | 26-60 | ---  | ---  | 18-23 | 1.35-1.60          | 4.23-14.11                       | 0.15-0.25                | 0.0-2.9         | 0.0-1.0        | .24             | .28 |     |                        |                        |
| CnA:<br>Colton              | 0-8   | ---  | ---  | 5-12  | 0.85-1.15          | 14.11-42.34                      | 0.08-0.15                | 0.0-2.9         | 0.0-2.0        | .10             | .17 | 2   | 7                      | 38                     |
|                             | 8-16  | ---  | ---  | 5-12  | 0.90-1.20          | 14.11-42.34                      | 0.06-0.15                | 0.0-2.9         | 1.0-4.0        | .10             | .15 |     |                        |                        |
|                             | 16-21 | ---  | ---  | 1-8   | 1.00-1.40          | 42.34-141.14                     | 0.03-0.10                | 0.0-2.9         | 0.5-2.0        | .10             | .20 |     |                        |                        |
|                             | 21-60 | ---  | ---  | 0-5   | 1.40-1.70          | 42.34-141.14                     | 0.01-0.06                | 0.0-2.9         | 0.0-0.5        | .05             | .17 |     |                        |                        |

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## Physical Properties of the Soils - Continued

Aroostook County, Maine, Southern Part

| Map Symbol<br>and Soil Name | Depth | Sand | Silt | Clay  | Moist Bulk Density | Saturated Hydraulic Conductivity | Available Water Capacity | Linear Extensi- | Organic Matter | Erosion Factors |     |     | Wind Erodi-<br>bility Group | Wind Erodi-<br>bility Index |
|-----------------------------|-------|------|------|-------|--------------------|----------------------------------|--------------------------|-----------------|----------------|-----------------|-----|-----|-----------------------------|-----------------------------|
|                             |       |      |      |       |                    |                                  |                          |                 |                | In              | Pct | Pct | Kw Kw                       | Kf Kf                       |
| CnB:<br>Colton              | 0-8   | ---  | ---  | 1-7   | 1.10-1.40          | 42.34-141.14                     | 0.09-0.12                | 0.0-2.9         | 2.0-6.0        | .20             | .24 | 5   | 3                           | 86                          |
|                             | 8-16  | ---  | ---  | 0-7   | 1.15-1.45          | 42.34-141.14                     | 0.05-0.12                | 0.0-2.9         | 0.5-2.0        | .24             | .24 |     |                             |                             |
|                             | 16-21 | ---  | ---  | 0-5   | 1.25-1.55          | 42.34-141.14                     | 0.02-0.05                | 0.0-2.9         | 0.0-0.5        | .15             | .17 |     |                             |                             |
|                             | 21-60 | ---  | ---  | 0-3   | 1.45-1.65          | 141.14-705.0                     | 0.01-0.02                | 0.0-2.9         | ---            | .10             | .17 |     |                             |                             |
|                             |       |      |      |       | 0                  |                                  |                          |                 |                |                 |     |     |                             |                             |
| CnC:<br>Colton              | 0-8   | ---  | ---  | 1-7   | 1.10-1.40          | 42.34-141.14                     | 0.09-0.12                | 0.0-2.9         | 2.0-6.0        | .20             | .24 | 5   | 3                           | 86                          |
|                             | 8-16  | ---  | ---  | 0-7   | 1.15-1.45          | 42.34-141.14                     | 0.05-0.12                | 0.0-2.9         | 0.5-2.0        | .24             | .24 |     |                             |                             |
|                             | 16-21 | ---  | ---  | 0-5   | 1.25-1.55          | 42.34-141.14                     | 0.02-0.05                | 0.0-2.9         | 0.0-0.5        | .15             | .17 |     |                             |                             |
|                             | 21-60 | ---  | ---  | 0-3   | 1.45-1.65          | 141.14-705.0                     | 0.01-0.02                | 0.0-2.9         | ---            | .10             | .17 |     |                             |                             |
|                             |       |      |      |       | 0                  |                                  |                          |                 |                |                 |     |     |                             |                             |
| CnD:<br>Colton              | 0-8   | ---  | ---  | 1-7   | 1.10-1.40          | 42.34-141.14                     | 0.09-0.12                | 0.0-2.9         | 2.0-6.0        | .20             | .24 | 5   | 3                           | 86                          |
|                             | 8-16  | ---  | ---  | 0-7   | 1.15-1.45          | 42.34-141.14                     | 0.05-0.12                | 0.0-2.9         | 0.5-2.0        | .24             | .24 |     |                             |                             |
|                             | 16-21 | ---  | ---  | 0-5   | 1.25-1.55          | 42.34-141.14                     | 0.02-0.05                | 0.0-2.9         | 0.0-0.5        | .15             | .17 |     |                             |                             |
|                             | 21-60 | ---  | ---  | 0-3   | 1.45-1.65          | 141.14-705.0                     | 0.01-0.02                | 0.0-2.9         | ---            | .10             | .17 |     |                             |                             |
|                             |       |      |      |       | 0                  |                                  |                          |                 |                |                 |     |     |                             |                             |
| CnE:<br>Colton              | 0-8   | ---  | ---  | 1-7   | 1.10-1.40          | 42.34-141.14                     | 0.09-0.12                | 0.0-2.9         | 2.0-6.0        | .20             | .24 | 5   | 3                           | 86                          |
|                             | 8-16  | ---  | ---  | 0-7   | 1.15-1.45          | 42.34-141.14                     | 0.05-0.12                | 0.0-2.9         | 0.5-2.0        | .24             | .24 |     |                             |                             |
|                             | 16-21 | ---  | ---  | 0-5   | 1.25-1.55          | 42.34-141.14                     | 0.02-0.05                | 0.0-2.9         | 0.0-0.5        | .15             | .17 |     |                             |                             |
|                             | 21-60 | ---  | ---  | 0-3   | 1.45-1.65          | 141.14-705.0                     | 0.01-0.02                | 0.0-2.9         | ---            | .10             | .17 |     |                             |                             |
|                             |       |      |      |       | 0                  |                                  |                          |                 |                |                 |     |     |                             |                             |
| CoA:<br>Conant              | 0-8   | ---  | ---  | 10-19 | 1.00-1.25          | 4.23-14.11                       | 0.22-0.28                | 0.0-2.9         | 3.0-8.0        | .28             | .28 | 5   | 5                           | 56                          |
|                             | 8-18  | ---  | ---  | 18-23 | 1.10-1.40          | 4.23-14.11                       | 0.15-0.26                | 0.0-2.9         | 2.0-6.0        | .24             | .28 |     |                             |                             |
|                             | 18-26 | ---  | ---  | 18-23 | 1.10-1.40          | 4.23-14.11                       | 0.15-0.26                | 0.0-2.9         | 0.5-2.0        | .24             | .28 |     |                             |                             |
|                             | 26-60 | ---  | ---  | 18-23 | 1.35-1.60          | 4.23-14.11                       | 0.15-0.25                | 0.0-2.9         | 0.0-1.0        | .24             | .28 |     |                             |                             |
|                             |       |      |      |       |                    |                                  |                          |                 |                |                 |     |     |                             |                             |

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## Physical Properties of the Soils - Continued

Aroostook County, Maine, Southern Part

| Map Symbol<br>and Soil Name | Depth | Sand | Silt | Clay  | Moist Bulk Density | Saturated Hydraulic Conductivity | Available Water Capacity | Linear Extensi- | Organic Matter | Erosion Factors |     |     | Wind Erodi-<br>bility Group | Wind Erodi-<br>bility Index |
|-----------------------------|-------|------|------|-------|--------------------|----------------------------------|--------------------------|-----------------|----------------|-----------------|-----|-----|-----------------------------|-----------------------------|
|                             |       |      |      |       |                    |                                  |                          |                 |                | In              | Pct | Pct | Kw Kw                       | Kf Kf                       |
| CoB:<br>Conant              | 0-8   | ---  | ---  | 10-19 | 1.00-1.25          | 4.23-14.11                       | 0.22-0.28                | 0.0-2.9         | 3.0-8.0        | .28             | .28 | 5   | 5                           | 56                          |
|                             | 8-18  | ---  | ---  | 18-23 | 1.10-1.40          | 4.23-14.11                       | 0.15-0.26                | 0.0-2.9         | 2.0-6.0        | .24             | .28 |     |                             |                             |
|                             | 18-26 | ---  | ---  | 18-23 | 1.10-1.40          | 4.23-14.11                       | 0.15-0.26                | 0.0-2.9         | 0.5-2.0        | .24             | .28 |     |                             |                             |
|                             | 26-60 | ---  | ---  | 18-23 | 1.35-1.60          | 4.23-14.11                       | 0.15-0.25                | 0.0-2.9         | 0.0-1.0        | .24             | .28 |     |                             |                             |
| CoC:<br>Conant              | 0-8   | ---  | ---  | 10-19 | 1.00-1.25          | 4.23-14.11                       | 0.22-0.28                | 0.0-2.9         | 3.0-8.0        | .28             | .28 | 5   | 5                           | 56                          |
|                             | 8-18  | ---  | ---  | 18-23 | 1.10-1.40          | 4.23-14.11                       | 0.15-0.26                | 0.0-2.9         | 2.0-6.0        | .24             | .28 |     |                             |                             |
|                             | 18-26 | ---  | ---  | 18-23 | 1.10-1.40          | 4.23-14.11                       | 0.15-0.26                | 0.0-2.9         | 0.5-2.0        | .24             | .28 |     |                             |                             |
|                             | 26-60 | ---  | ---  | 18-23 | 1.35-1.60          | 4.23-14.11                       | 0.15-0.25                | 0.0-2.9         | 0.0-1.0        | .24             | .28 |     |                             |                             |
| DaA:<br>Daigle              | 0-7   | ---  | ---  | 13-22 | 0.90-1.20          | 4.23-14.11                       | 0.15-0.30                | 0.0-2.9         | 4.0-8.0        | .24             | .24 | 2   | 5                           | 56                          |
|                             | 7-18  | ---  | ---  | 15-25 | 1.20-1.50          | 4.23-14.11                       | 0.12-0.30                | 0.0-2.9         | 0.5-3.0        | .24             | .28 |     |                             |                             |
|                             | 18-48 | ---  | ---  | 18-30 | 1.60-1.90          | 0.00-1.41                        | 0.02-0.08                | 0.0-2.9         | 0.0-0.5        | .37             | .43 |     |                             |                             |
| DaB:<br>Daigle              | 0-7   | ---  | ---  | 13-22 | 0.90-1.20          | 4.23-14.11                       | 0.15-0.30                | 0.0-2.9         | 4.0-8.0        | .24             | .24 | 2   | 5                           | 56                          |
|                             | 7-18  | ---  | ---  | 15-25 | 1.20-1.50          | 4.23-14.11                       | 0.12-0.30                | 0.0-2.9         | 0.5-3.0        | .24             | .28 |     |                             |                             |
|                             | 18-48 | ---  | ---  | 18-30 | 1.60-1.90          | 0.00-1.41                        | 0.02-0.08                | 0.0-2.9         | 0.0-0.5        | .37             | .43 |     |                             |                             |
| DaC:<br>Daigle              | 0-7   | ---  | ---  | 13-22 | 0.90-1.20          | 4.23-14.11                       | 0.15-0.30                | 0.0-2.9         | 4.0-8.0        | .24             | .24 | 2   | 5                           | 56                          |
|                             | 7-18  | ---  | ---  | 15-25 | 1.20-1.50          | 4.23-14.11                       | 0.12-0.30                | 0.0-2.9         | 0.5-3.0        | .24             | .28 |     |                             |                             |
|                             | 18-48 | ---  | ---  | 18-30 | 1.60-1.90          | 0.00-1.41                        | 0.02-0.08                | 0.0-2.9         | 0.0-0.5        | .37             | .43 |     |                             |                             |
| GP:<br>Pits                 | 0-6   | ---  | ---  | 0-1   | ---                | 42.34-141.14                     | 0.01-0.02                | 0.0-2.9         | 0.0-0.1        | .02             | --- | --- | 8                           | 0                           |
|                             | 6-60  | ---  | ---  | 0-1   | ---                | 42.34-141.14                     | 0.01-0.02                | 0.0-2.9         | ---            | .02             | --- | --- |                             |                             |
| Ha:                         |       |      |      |       |                    |                                  |                          |                 |                |                 |     |     |                             |                             |

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## Physical Properties of the Soils - Continued

Aroostook County, Maine, Southern Part

| Map Symbol<br>and Soil Name | Depth | Sand | Silt | Clay  | Moist Bulk Density | Saturated Hydraulic Conductivity | Available Water Capacity | Linear Extensi- | Organic Matter | Erosion Factors |       |       | Wind Erodi-<br>bility Group | Wind Erodi-<br>bility Index |
|-----------------------------|-------|------|------|-------|--------------------|----------------------------------|--------------------------|-----------------|----------------|-----------------|-------|-------|-----------------------------|-----------------------------|
|                             |       | In   | Pct  | Pct   | Pct                | g/cc                             | micro m/sec              | In/In           | bility Pct     | Pct             | Kw Kw | Kf Kf | T T                         |                             |
| Ha:<br>Hadley               | 0-10  | ---  | ---  | 3-16  | 1.10-1.35          | 4.23-14.11                       | 0.22-0.32                | 0.0-2.9         | 1.0-2.0        | .43             | .43   | 5     | 3                           | 86                          |
|                             | 10-60 | ---  | ---  | 2-15  | 1.20-1.50          | 4.23-14.11                       | 0.25-0.37                | 0.0-2.9         | 0.5-2.0        | .43             | .43   |       |                             |                             |
| HoA:<br>Howland             | 0-10  | ---  | ---  | 5-13  | 0.90-1.20          | 4.23-14.11                       | 0.18-0.33                | 0.0-2.9         | 3.0-8.0        | .24             | .28   | 3     | 7                           | 38                          |
|                             | 10-23 | ---  | ---  | 10-18 | 1.30-1.60          | 4.23-14.11                       | 0.20-0.40                | 0.0-2.9         | 0.5-3.0        | .32             | .37   |       |                             |                             |
|                             | 23-60 | ---  | ---  | 10-18 | 1.60-1.90          | 0.00-1.41                        | 0.05-0.10                | 0.0-2.9         | 0.0-0.5        | .32             | .37   |       |                             |                             |
| HoB:<br>Howland             | 0-6   | ---  | ---  | 5-13  | 0.90-1.20          | 4.23-14.11                       | 0.18-0.33                | 0.0-2.9         | 3.0-8.0        | .24             | .28   | 3     | 7                           | 38                          |
|                             | 6-23  | ---  | ---  | 10-18 | 1.30-1.60          | 4.23-14.11                       | 0.20-0.40                | 0.0-2.9         | 0.5-3.0        | .32             | .37   |       |                             |                             |
|                             | 23-60 | ---  | ---  | 10-18 | 1.60-1.90          | 0.00-1.41                        | 0.05-0.10                | 0.0-2.9         | 0.0-0.5        | .32             | .37   |       |                             |                             |
| HoC:<br>Howland             | 0-2   | ---  | ---  | 5-13  | 0.90-1.20          | 4.23-14.11                       | 0.18-0.33                | 0.0-2.9         | 3.0-8.0        | .24             | .28   | 3     | 7                           | 38                          |
|                             | 2-23  | ---  | ---  | 10-18 | 1.30-1.60          | 4.23-14.11                       | 0.20-0.40                | 0.0-2.9         | 0.5-3.0        | .32             | .37   |       |                             |                             |
|                             | 23-60 | ---  | ---  | 10-18 | 1.60-1.90          | 0.00-1.41                        | 0.05-0.10                | 0.0-2.9         | 0.0-0.5        | .32             | .37   |       |                             |                             |
| HvB:<br>Howland             | 0-2   | ---  | ---  | 5-13  | 0.70-1.00          | 4.23-14.11                       | 0.15-0.25                | 0.0-2.9         | 0.0-2.0        | .28             | .28   | 3     | 8                           | 0                           |
|                             | 2-23  | ---  | ---  | 10-18 | 1.30-1.60          | 4.23-14.11                       | 0.20-0.40                | 0.0-2.9         | 0.5-4.0        | .32             | .37   |       |                             |                             |
|                             | 23-60 | ---  | ---  | 10-18 | 1.60-1.90          | 0.00-1.41                        | 0.05-0.10                | 0.0-2.9         | 0.0-0.5        | .32             | .37   |       |                             |                             |
| HvC:<br>Howland             | 0-2   | ---  | ---  | 5-13  | 0.70-1.00          | 4.23-14.11                       | 0.15-0.25                | 0.0-2.9         | 0.0-2.0        | .28             | .28   | 3     | 8                           | 0                           |
|                             | 2-23  | ---  | ---  | 10-18 | 1.30-1.60          | 4.23-14.11                       | 0.20-0.40                | 0.0-2.9         | 0.5-4.0        | .32             | .37   |       |                             |                             |
|                             | 23-60 | ---  | ---  | 10-18 | 1.60-1.90          | 0.00-1.41                        | 0.05-0.10                | 0.0-2.9         | 0.0-0.5        | .32             | .37   |       |                             |                             |
| LnB:<br>Linneus             | 0-6   | ---  | ---  | 10-18 | 1.00-1.25          | 4.23-14.11                       | 0.18-0.28                | 0.0-2.9         | 4.0-8.0        | .28             | .28   | 3     | 5                           | 56                          |
|                             | 6-32  | ---  | ---  | 10-18 | 1.10-1.40          | 4.23-14.11                       | 0.12-0.22                | 0.0-2.9         | 0.0-3.0        | .28             | .32   |       |                             |                             |
|                             | 32-36 | ---  | ---  | ---   | ---                | 0.42-4.23                        | ---                      | ---             | ---            | ---             | ---   |       |                             |                             |

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## Physical Properties of the Soils - Continued

Aroostook County, Maine, Southern Part

| Map Symbol<br>and Soil Name | Depth | Sand | Silt | Clay  | Moist Bulk Density | Saturated Hydraulic Conductivity | Available Water Capacity | Linear Extensi- | Organic Matter | Erosion Factors |     |     | Wind Erodi-<br>bility Group | Wind Erodi-<br>bility Index |
|-----------------------------|-------|------|------|-------|--------------------|----------------------------------|--------------------------|-----------------|----------------|-----------------|-----|-----|-----------------------------|-----------------------------|
|                             |       | In   | Pct  | Pct   | Pct                | g/cc                             | micro m/sec              | In/In           |                | bility Pct      | Kw  | Kf  | T                           |                             |
| LnB:                        |       |      |      |       |                    |                                  |                          |                 |                |                 |     |     |                             |                             |
| LnC:<br>Linneus             | 0-6   | ---  | ---  | 10-18 | 1.00-1.25          | 4.23-14.11                       | 0.18-0.28                | 0.0-2.9         | 4.0-8.0        | .28             | .28 | 3   | 5                           | 56                          |
|                             | 6-32  | ---  | ---  | 10-18 | 1.10-1.40          | 4.23-14.11                       | 0.12-0.22                | 0.0-2.9         | 0.0-3.0        | .28             | .32 |     |                             |                             |
|                             | 32-36 | ---  | ---  | ---   | ---                | 0.42-4.23                        | ---                      | ---             | ---            | ---             | --- | --- | ---                         |                             |
| LnD:<br>Linneus             | 0-6   | ---  | ---  | 10-18 | 1.00-1.25          | 4.23-14.11                       | 0.18-0.28                | 0.0-2.9         | 4.0-8.0        | .28             | .28 | 3   | 5                           | 56                          |
|                             | 6-32  | ---  | ---  | 10-18 | 1.10-1.40          | 4.23-14.11                       | 0.12-0.22                | 0.0-2.9         | 0.0-3.0        | .28             | .32 |     |                             |                             |
|                             | 32-36 | ---  | ---  | ---   | ---                | 0.42-4.23                        | ---                      | ---             | ---            | ---             | --- | --- | ---                         |                             |
| MaA:<br>Machias             | 0-11  | ---  | ---  | 5-12  | 0.85-1.15          | 14.11-42.34                      | 0.08-0.15                | 0.0-2.9         | 2.0-6.0        | .10             | .20 | 3   | 7                           | 38                          |
|                             | 11-30 | ---  | ---  | 5-12  | 0.90-1.20          | 14.11-42.34                      | 0.06-0.15                | 0.0-2.9         | 0.5-2.0        | .10             | .15 |     |                             |                             |
|                             | 30-60 | ---  | ---  | 0-5   | 1.40-1.70          | 42.34-141.14                     | 0.01-0.08                | 0.0-2.9         | 0.0-0.5        | .10             | .17 |     |                             |                             |
| MaB:<br>Machias             | 0-11  | ---  | ---  | 5-12  | 0.85-1.15          | 14.11-42.34                      | 0.08-0.15                | 0.0-2.9         | 2.0-6.0        | .10             | .20 | 3   | 7                           | 38                          |
|                             | 11-30 | ---  | ---  | 5-12  | 0.90-1.20          | 14.11-42.34                      | 0.06-0.15                | 0.0-2.9         | 0.5-2.0        | .10             | .15 |     |                             |                             |
|                             | 30-60 | ---  | ---  | 0-5   | 1.40-1.70          | 42.34-141.14                     | 0.01-0.08                | 0.0-2.9         | 0.0-0.5        | .10             | .17 |     |                             |                             |
| MaC:<br>Machias             | 0-4   | ---  | ---  | 5-12  | 0.85-1.15          | 14.11-42.34                      | 0.08-0.15                | 0.0-2.9         | 2.0-6.0        | .10             | .20 | 3   | 7                           | 38                          |
|                             | 4-30  | ---  | ---  | 5-12  | 0.90-1.20          | 14.11-42.34                      | 0.06-0.15                | 0.0-2.9         | 0.5-2.0        | .10             | .15 |     |                             |                             |
|                             | 30-60 | ---  | ---  | 0-5   | 1.40-1.70          | 42.34-141.14                     | 0.01-0.08                | 0.0-2.9         | 0.0-0.5        | .10             | .17 |     |                             |                             |
| Md:<br>Made Land            | 0-60  | ---  | ---  | 1-15  | 1.00-2.00          | 0.42-141.14                      | 0.01-0.20                | 0.0-2.9         | 0.5-10         | ---             | --- | --- | ---                         | ---                         |
| MhB:                        |       |      |      |       |                    |                                  |                          |                 |                |                 |     |     |                             |                             |

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## Physical Properties of the Soils - Continued

Aroostook County, Maine, Southern Part

| Map Symbol<br>and Soil Name   | Depth | Sand | Silt | Clay  | Moist Bulk Density | Saturated Hydraulic Conductivity | Available Water Capacity | Linear Extensi- | Organic Matter | Erosion Factors |       |       | Wind Erodi-<br>bility Group | Wind Erodi-<br>bility Index |
|-------------------------------|-------|------|------|-------|--------------------|----------------------------------|--------------------------|-----------------|----------------|-----------------|-------|-------|-----------------------------|-----------------------------|
|                               |       | In   | Pct  | Pct   | Pct                | g/cc                             | micro m/sec              | In/In           | bility Pct     | Pct             | Kw Kw | Kf Kf | T T                         |                             |
| MhB:<br>Mapleton              | 0-8   | ---  | ---  | 10-18 | 1.00-1.25          | 4.23-14.11                       | 0.18-0.28                | 0.0-2.9         | 4.0-8.0        | .28             | .32   | 2     | 7                           | 38                          |
|                               | 8-19  | ---  | ---  | 10-18 | 1.10-1.40          | 4.23-14.11                       | 0.12-0.22                | 0.0-2.9         | 0.5-3.0        | .20             | .24   |       |                             |                             |
|                               | 19-24 | ---  | ---  | ---   | ---                | 0.42-4.23                        | ---                      | ---             | ---            | ---             | ---   |       |                             |                             |
| MhC:<br>Mapleton              | 0-8   | ---  | ---  | 10-18 | 1.00-1.25          | 4.23-14.11                       | 0.18-0.28                | 0.0-2.9         | 4.0-8.0        | .28             | .32   | 2     | 7                           | 38                          |
|                               | 8-17  | ---  | ---  | 10-18 | 1.10-1.40          | 4.23-14.11                       | 0.12-0.22                | 0.0-2.9         | 0.5-3.0        | .20             | .24   |       |                             |                             |
|                               | 17-19 | ---  | ---  | ---   | ---                | 0.42-4.23                        | ---                      | ---             | ---            | ---             | ---   |       |                             |                             |
| MhD:<br>Mapleton              | 0-8   | ---  | ---  | 10-18 | 1.00-1.25          | 4.23-14.11                       | 0.18-0.28                | 0.0-2.9         | 4.0-8.0        | .28             | .32   | 2     | 7                           | 38                          |
|                               | 8-15  | ---  | ---  | 10-18 | 1.10-1.40          | 4.23-14.11                       | 0.12-0.22                | 0.0-2.9         | 0.5-3.0        | .20             | .24   |       |                             |                             |
|                               | 15-19 | ---  | ---  | ---   | ---                | 0.42-4.23                        | ---                      | ---             | ---            | ---             | ---   |       |                             |                             |
| MmC:<br>Mapleton              | 0-2   | ---  | ---  | 10-18 | 0.90-1.20          | 4.23-14.11                       | 0.18-0.28                | 0.0-2.9         | 4.0-8.0        | .24             | .32   | 2     | 8                           | 0                           |
|                               | 2-15  | ---  | ---  | 10-18 | 1.10-1.40          | 4.23-14.11                       | 0.12-0.22                | 0.0-2.9         | 0.5-3.0        | .20             | .24   |       |                             |                             |
|                               | 15-19 | ---  | ---  | ---   | ---                | 0.42-4.23                        | ---                      | ---             | ---            | ---             | ---   |       |                             |                             |
| MmD:<br>Mapleton              | 0-2   | ---  | ---  | 10-18 | 0.90-1.20          | 4.23-14.11                       | 0.18-0.28                | 0.0-2.9         | 4.0-8.0        | .24             | .32   | 2     | 8                           | 0                           |
|                               | 2-15  | ---  | ---  | 10-18 | 1.10-1.40          | 4.23-14.11                       | 0.12-0.22                | 0.0-2.9         | 0.5-3.0        | .20             | .24   |       |                             |                             |
|                               | 15-19 | ---  | ---  | ---   | ---                | 0.42-4.23                        | ---                      | ---             | ---            | ---             | ---   |       |                             |                             |
| Mn:<br>Mixed Alluvial Land Pd | 0-6   | ---  | ---  | 2-18  | 0.90-1.35          | 4.23-14.11                       | 0.20-0.40                | 0.0-2.9         | 5.0-10         | .32             | .32   | 5     | 3                           | 86                          |
|                               | 6-65  | ---  | ---  | 2-18  | 1.00-1.50          | 4.23-14.11                       | 0.20-0.40                | 0.0-2.9         | 1.0-4.0        | .49             | .49   |       |                             |                             |
| Mixed Alluvial Land Vpd       | 0-12  | ---  | ---  | 2-8   | 0.80-1.00          | 4.23-14.11                       | 0.30-0.40                | 0.0-2.9         | 10-20          | .28             | .28   | 5     | 8                           | 0                           |
|                               | 12-27 | ---  | ---  | 2-10  | 1.10-1.35          | 4.23-14.11                       | 0.20-0.30                | 0.0-2.9         | 0.5-2.0        | .49             | .49   |       |                             |                             |
|                               | 27-65 | ---  | ---  | 2-10  | 1.30-1.50          | 4.23-14.11                       | 0.20-0.30                | 0.0-2.9         | 0.0-2.0        | .49             | .49   |       |                             |                             |

## Physical Properties of the Soils - Continued

Aroostook County, Maine, Southern Part

| Map Symbol<br>and Soil Name | Depth | Sand | Silt | Clay  | Moist Bulk Density | Saturated Hydraulic Conductivity | Available Water Capacity | Linear Extensi- | Organic Matter | Erosion Factors |     |     | Wind Erodi-<br>bility Group | Wind Erodi-<br>bility Index |
|-----------------------------|-------|------|------|-------|--------------------|----------------------------------|--------------------------|-----------------|----------------|-----------------|-----|-----|-----------------------------|-----------------------------|
|                             |       |      |      |       |                    |                                  |                          |                 |                | In              | Pct | Pct | Kw Kw                       | Kf Kf                       |
| MoA:<br>Monarda             | 0-3   | ---  | ---  | 10-18 | 1.00-1.30          | 4.23-42.34                       | 0.17-0.32                | 0.0-2.9         | 3.0-8.0        | .28             | .28 | 2   | 5                           | 56                          |
|                             | 3-16  | ---  | ---  | 10-18 | 1.30-1.70          | 0.00-14.11                       | 0.15-0.32                | 0.0-2.9         | 0.0-4.0        | .28             | .32 |     |                             |                             |
|                             | 16-65 | ---  | ---  | 10-18 | 1.70-1.95          | 0.00-1.41                        | 0.05-0.10                | 0.0-2.9         | 0.0-0.5        | .28             | .32 |     |                             |                             |
| Burnham                     | 0-9   | ---  | ---  | 0     | 0.10-0.30          | 1.41-42.34                       | 0.35-0.45                | ---             | 25-70          | .24             | --- | 2   | 8                           | 0                           |
|                             | 9-15  | ---  | ---  | 10-18 | 1.30-1.70          | 1.41-4.23                        | 0.16-0.35                | 0.0-2.9         | 0.5-10         | .28             | .32 |     |                             |                             |
|                             | 15-65 | ---  | ---  | 10-18 | 1.70-1.95          | 0.00-0.14                        | 0.05-0.10                | 0.0-2.9         | 0.0-0.5        | .28             | .32 |     |                             |                             |
| MoB:<br>Monarda             | 0-3   | ---  | ---  | 10-18 | 1.00-1.30          | 4.23-42.34                       | 0.17-0.32                | 0.0-2.9         | 3.0-8.0        | .28             | .28 | 2   | 5                           | 56                          |
|                             | 3-16  | ---  | ---  | 10-18 | 1.30-1.70          | 0.00-14.11                       | 0.15-0.32                | 0.0-2.9         | 0.0-4.0        | .28             | .32 |     |                             |                             |
|                             | 16-65 | ---  | ---  | 10-18 | 1.70-1.95          | 0.00-1.41                        | 0.05-0.10                | 0.0-2.9         | 0.0-0.5        | .28             | .32 |     |                             |                             |
| Burnham                     | 0-9   | ---  | ---  | 0     | 0.10-0.30          | 1.41-42.34                       | 0.35-0.45                | ---             | 25-70          | .24             | --- | 2   | 8                           | 0                           |
|                             | 9-15  | ---  | ---  | 10-18 | 1.30-1.70          | 1.41-4.23                        | 0.16-0.35                | 0.0-2.9         | 0.5-10         | .28             | .32 |     |                             |                             |
|                             | 15-65 | ---  | ---  | 10-18 | 1.70-1.95          | 0.00-0.14                        | 0.05-0.10                | 0.0-2.9         | 0.0-0.5        | .28             | .32 |     |                             |                             |
| MrB:<br>Monarda             | 0-3   | ---  | ---  | 10-18 | 1.00-1.30          | 4.23-42.34                       | 0.15-0.30                | 0.0-2.9         | 0.0-8.0        | .20             | .28 | 2   | 8                           | 0                           |
|                             | 3-16  | ---  | ---  | 10-18 | 1.30-1.70          | 0.00-14.11                       | 0.15-0.25                | 0.0-2.9         | 0.0-4.0        | .28             | .32 |     |                             |                             |
|                             | 16-65 | ---  | ---  | 10-18 | 1.70-1.95          | 0.00-1.41                        | 0.05-0.10                | 0.0-2.9         | 0.0-0.5        | .28             | .32 |     |                             |                             |
| Burnham                     | 0-9   | ---  | ---  | 0     | 0.10-0.30          | 1.41-42.34                       | 0.32-0.42                | ---             | 25-70          | ---             | --- | 2   | 8                           | 0                           |
|                             | 9-15  | ---  | ---  | 10-18 | 1.30-1.70          | 1.41-4.23                        | 0.16-0.35                | 0.0-2.9         | 0.5-10         | .28             | .32 |     |                             |                             |
|                             | 15-65 | ---  | ---  | 10-18 | 1.70-1.95          | 0.00-1.41                        | 0.05-0.10                | 0.0-2.9         | 0.0-0.5        | .28             | .32 |     |                             |                             |
| Pa:<br>Muck                 | 0-8   | ---  | ---  | 0     | 0.10-0.30          | 1.41-42.34                       | 0.20-0.40                | ---             | 80-99          | ---             | --- | 2   | 8                           | 0                           |
|                             | 8-32  | ---  | ---  | 0     | 0.10-0.30          | 1.41-42.34                       | 0.20-0.40                | ---             | 80-99          | ---             | --- |     |                             |                             |
|                             | 32-60 | ---  | ---  | 5-30  | 1.50-1.70          | 1.41-14.11                       | 0.06-0.16                | 0.0-2.9         | 0.0-2.0        | .49             | .49 |     |                             |                             |

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## Physical Properties of the Soils - Continued

Aroostook County, Maine, Southern Part

| Map Symbol<br>and Soil Name | Depth | Sand | Silt | Clay  | Moist Bulk Density | Saturated Hydraulic Conductivity | Available Water Capacity | Linear Extensi- | Organic Matter | Erosion Factors |     |     | Wind Erodi-<br>bility Group | Wind Erodi-<br>bility Index |
|-----------------------------|-------|------|------|-------|--------------------|----------------------------------|--------------------------|-----------------|----------------|-----------------|-----|-----|-----------------------------|-----------------------------|
|                             |       |      |      |       |                    |                                  |                          |                 |                | In              | Pct | Pct | Kw Kw                       | Kf Kf                       |
| Pa:<br>Peat                 | 0-27  | ---  | ---  | 0     | 0.10-0.30          | 14.11-42.34                      | 0.20-0.40                | 0.0-2.9         | 80-99          | ---             | --- | 3   | 8                           | 0                           |
|                             | 27-60 | ---  | ---  | 0     | 0.10-0.30          | 14.11-42.34                      | 0.20-0.40                | 0.0-2.9         | 80-99          | ---             | --- |     |                             |                             |
| PeA:<br>Perham              | 0-10  | ---  | ---  | 13-22 | 0.75-1.05          | 4.23-14.11                       | 0.14-0.32                | 0.0-2.9         | 4.0-10         | .17             | .24 | 3   | 8                           | 0                           |
|                             | 10-21 | ---  | ---  | 15-25 | 1.00-1.25          | 4.23-14.11                       | 0.15-0.30                | 0.0-2.9         | 1.0-4.0        | .24             | .28 |     |                             |                             |
|                             | 21-27 | ---  | ---  | 18-27 | 1.25-1.55          | 4.23-14.11                       | 0.10-0.26                | 0.0-2.9         | 0.5-2.0        | .32             | .37 |     |                             |                             |
|                             | 27-60 | ---  | ---  | 18-30 | 1.55-1.95          | 0.00-1.41                        | 0.08-0.20                | 0.0-2.9         | 0.0-0.5        | .37             | .43 |     |                             |                             |
| PeB:<br>Perham              | 0-10  | ---  | ---  | 13-22 | 0.75-1.05          | 4.23-14.11                       | 0.14-0.32                | 0.0-2.9         | 4.0-10         | .17             | .24 | 3   | 8                           | 0                           |
|                             | 10-21 | ---  | ---  | 15-25 | 1.00-1.25          | 4.23-14.11                       | 0.15-0.30                | 0.0-2.9         | 1.0-4.0        | .24             | .28 |     |                             |                             |
|                             | 21-27 | ---  | ---  | 18-27 | 1.25-1.55          | 4.23-14.11                       | 0.10-0.26                | 0.0-2.9         | 0.5-2.0        | .32             | .37 |     |                             |                             |
|                             | 27-60 | ---  | ---  | 18-30 | 1.55-1.95          | 0.00-1.41                        | 0.08-0.20                | 0.0-2.9         | 0.0-0.5        | .37             | .43 |     |                             |                             |
| PeC:<br>Perham              | 0-10  | ---  | ---  | 13-22 | 0.75-1.05          | 4.23-14.11                       | 0.14-0.32                | 0.0-2.9         | 4.0-10         | .17             | .24 | 3   | 8                           | 0                           |
|                             | 10-21 | ---  | ---  | 15-25 | 1.00-1.25          | 4.23-14.11                       | 0.15-0.30                | 0.0-2.9         | 1.0-4.0        | .24             | .28 |     |                             |                             |
|                             | 21-27 | ---  | ---  | 18-27 | 1.25-1.55          | 4.23-14.11                       | 0.10-0.26                | 0.0-2.9         | 0.5-2.0        | .32             | .37 |     |                             |                             |
|                             | 27-60 | ---  | ---  | 18-30 | 1.55-1.95          | 0.00-1.41                        | 0.08-0.20                | 0.0-2.9         | 0.0-0.5        | .37             | .43 |     |                             |                             |
| PeD:<br>Perham              | 0-2   | ---  | ---  | 13-22 | 0.75-1.05          | 4.23-14.11                       | 0.14-0.32                | 0.0-2.9         | 4.0-10         | .17             | .24 | 3   | 8                           | 0                           |
|                             | 2-21  | ---  | ---  | 15-25 | 1.00-1.25          | 4.23-14.11                       | 0.15-0.30                | 0.0-2.9         | 1.0-4.0        | .24             | .28 |     |                             |                             |
|                             | 21-27 | ---  | ---  | 18-27 | 1.25-1.55          | 4.23-14.11                       | 0.10-0.26                | 0.0-2.9         | 0.5-2.0        | .32             | .37 |     |                             |                             |
|                             | 27-60 | ---  | ---  | 18-30 | 1.55-1.95          | 0.00-1.41                        | 0.08-0.20                | 0.0-2.9         | 0.0-0.5        | .37             | .43 |     |                             |                             |
| PgB:<br>Plaisted            | 0-8   | ---  | ---  | 1-10  | 0.80-1.30          | 4.23-14.11                       | 0.23-0.29                | 0.0-2.9         | 3.0-8.0        | .20             | .20 | 2   | 7                           | 38                          |
|                             | 8-16  | ---  | ---  | 1-10  | 0.90-1.40          | 4.23-14.11                       | 0.15-0.25                | 0.0-2.9         | 0.5-3.0        | .24             | .28 |     |                             |                             |
|                             | 16-65 | ---  | ---  | 1-10  | 1.60-1.90          | 0.42-4.23                        | 0.07-0.12                | 0.0-2.9         | 0.0-1.0        | .24             | .28 |     |                             |                             |

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## Physical Properties of the Soils - Continued

Aroostook County, Maine, Southern Part

| Map Symbol<br>and Soil Name | Depth | Sand | Silt | Clay | Moist Bulk Density | Saturated Hydraulic Conductivity | Available Water Capacity | Linear Extensi- | Organic Matter | Erosion Factors |     |     | Wind Erodi-<br>bility Group | Wind Erodi-<br>bility Index |
|-----------------------------|-------|------|------|------|--------------------|----------------------------------|--------------------------|-----------------|----------------|-----------------|-----|-----|-----------------------------|-----------------------------|
|                             |       |      |      |      |                    |                                  |                          |                 |                | In              | Pct | Pct | Kw Kw                       | Kf Kf                       |
| PgC:<br>Plaisted            | 0-8   | ---  | ---  | 1-10 | 0.80-1.30          | 4.23-14.11                       | 0.23-0.29                | 0.0-2.9         | 3.0-8.0        | .20             | .20 | 2   | 7                           | 38                          |
|                             | 8-16  | ---  | ---  | 1-10 | 0.90-1.40          | 4.23-14.11                       | 0.15-0.25                | 0.0-2.9         | 0.5-3.0        | .24             | .28 |     |                             |                             |
|                             | 16-65 | ---  | ---  | 1-10 | 1.60-1.90          | 0.42-4.23                        | 0.07-0.12                | 0.0-2.9         | 0.0-1.0        | .24             | .28 |     |                             |                             |
| PgD:<br>Plaisted            | 0-4   | ---  | ---  | 1-10 | 0.80-1.30          | 4.23-14.11                       | 0.23-0.29                | 0.0-2.9         | 3.0-8.0        | .20             | .20 | 2   | 7                           | 38                          |
|                             | 4-16  | ---  | ---  | 1-10 | 0.90-1.40          | 4.23-14.11                       | 0.15-0.25                | 0.0-2.9         | 0.5-3.0        | .24             | .28 |     |                             |                             |
|                             | 16-65 | ---  | ---  | 1-10 | 1.60-1.90          | 0.42-4.23                        | 0.07-0.12                | 0.0-2.9         | 0.0-1.0        | .24             | .28 |     |                             |                             |
| PrB:<br>Plaisted            | 0-4   | ---  | ---  | 1-10 | 0.90-1.30          | 4.23-14.11                       | 0.20-0.28                | 0.0-2.9         | 0.0-2.0        | .20             | .20 | 2   | 8                           | 0                           |
|                             | 4-16  | ---  | ---  | 1-10 | 0.80-1.40          | 4.23-14.11                       | 0.15-0.32                | 0.0-2.9         | 0.5-6.0        | .24             | .28 |     |                             |                             |
|                             | 16-65 | ---  | ---  | 1-10 | 1.60-1.90          | 0.42-4.23                        | 0.07-0.12                | 0.0-2.9         | 0.0-1.0        | .24             | .28 |     |                             |                             |
| PrC:<br>Plaisted            | 0-4   | ---  | ---  | 1-10 | 0.90-1.30          | 4.23-14.11                       | 0.20-0.28                | 0.0-2.9         | 0.0-2.0        | .20             | .20 | 2   | 8                           | 0                           |
|                             | 4-16  | ---  | ---  | 1-10 | 0.80-1.40          | 4.23-14.11                       | 0.15-0.32                | 0.0-2.9         | 0.5-6.0        | .24             | .28 |     |                             |                             |
|                             | 16-65 | ---  | ---  | 1-10 | 1.60-1.90          | 0.42-4.23                        | 0.07-0.12                | 0.0-2.9         | 0.0-1.0        | .24             | .28 |     |                             |                             |
| PrD:<br>Plaisted            | 0-4   | ---  | ---  | 1-10 | 0.90-1.30          | 4.23-14.11                       | 0.20-0.28                | 0.0-2.9         | 0.0-2.0        | .20             | .20 | 2   | 8                           | 0                           |
|                             | 4-16  | ---  | ---  | 1-10 | 0.80-1.40          | 4.23-14.11                       | 0.15-0.32                | 0.0-2.9         | 0.5-6.0        | .24             | .28 |     |                             |                             |
|                             | 16-65 | ---  | ---  | 1-10 | 1.60-1.90          | 0.42-4.23                        | 0.07-0.12                | 0.0-2.9         | 0.0-1.0        | .24             | .28 |     |                             |                             |
| PrE:<br>Plaisted            | 0-4   | ---  | ---  | 1-10 | 0.90-1.30          | 4.23-14.11                       | 0.20-0.28                | 0.0-2.9         | 0.0-2.0        | .20             | .20 | 2   | 8                           | 0                           |
|                             | 4-16  | ---  | ---  | 1-10 | 0.80-1.40          | 4.23-14.11                       | 0.15-0.32                | 0.0-2.9         | 0.5-6.0        | .24             | .28 |     |                             |                             |
|                             | 16-65 | ---  | ---  | 1-10 | 1.60-1.90          | 0.42-4.23                        | 0.07-0.12                | 0.0-2.9         | 0.0-1.0        | .24             | .28 |     |                             |                             |
| PvB:                        |       |      |      |      |                    |                                  |                          |                 |                |                 |     |     |                             |                             |

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## Physical Properties of the Soils - Continued

Aroostook County, Maine, Southern Part

| Map Symbol and Soil Name | Depth | Sand | Silt | Clay  | Moist Bulk Density | Saturated Hydraulic Conductivity | Available Water Capacity | Linear Extensi- | Organic Matter | Erosion Factors |       |       | Wind Erodibility Group | Wind Erodibility Index |
|--------------------------|-------|------|------|-------|--------------------|----------------------------------|--------------------------|-----------------|----------------|-----------------|-------|-------|------------------------|------------------------|
|                          |       | In   | Pct  | Pct   | Pct                | g/cc                             | micro m/sec              | In/In           | bility Pct     | Pct             | Kw Kw | Kf Kf | T T                    |                        |
| PvB:<br>Plaisted         | 0-4   | ---  | ---  | 1-10  | 0.90-1.30          | 4.23-14.11                       | 0.20-0.28                | 0.0-2.9         | 0.0-2.0        | .20             | .20   | 2     | 8                      | 0                      |
|                          | 4-16  | ---  | ---  | 1-10  | 0.80-1.40          | 4.23-14.11                       | 0.15-0.32                | 0.0-2.9         | 0.5-6.0        | .24             | .28   |       |                        |                        |
|                          | 16-65 | ---  | ---  | 1-10  | 1.60-1.90          | 0.42-4.23                        | 0.07-0.12                | 0.0-2.9         | 0.0-1.0        | .24             | .28   |       |                        |                        |
| Howland                  | 0-2   | ---  | ---  | 5-13  | 0.70-1.00          | 4.23-14.11                       | 0.15-0.25                | 0.0-2.9         | 0.0-2.0        | .28             | .28   | 3     | 8                      | 0                      |
|                          | 2-23  | ---  | ---  | 10-18 | 1.30-1.60          | 4.23-14.11                       | 0.20-0.40                | 0.0-2.9         | 0.5-4.0        | .32             | .37   |       |                        |                        |
|                          | 23-60 | ---  | ---  | 10-18 | 1.60-1.90          | 0.00-1.41                        | 0.05-0.10                | 0.0-2.9         | 0.0-0.5        | .32             | .37   |       |                        |                        |
| PvC:<br>Plaisted         | 0-4   | ---  | ---  | 1-10  | 0.90-1.30          | 4.23-14.11                       | 0.20-0.28                | 0.0-2.9         | 0.0-2.0        | .20             | .20   | 2     | 8                      | 0                      |
|                          | 4-16  | ---  | ---  | 1-10  | 0.80-1.40          | 4.23-14.11                       | 0.15-0.32                | 0.0-2.9         | 0.5-6.0        | .24             | .28   |       |                        |                        |
|                          | 16-65 | ---  | ---  | 1-10  | 1.60-1.90          | 0.42-4.23                        | 0.07-0.12                | 0.0-2.9         | 0.0-1.0        | .24             | .28   |       |                        |                        |
| Howland                  | 0-2   | ---  | ---  | 5-13  | 0.70-1.00          | 4.23-14.11                       | 0.15-0.25                | 0.0-2.9         | 0.0-2.0        | .28             | .28   | 3     | 8                      | 0                      |
|                          | 2-23  | ---  | ---  | 10-18 | 1.30-1.60          | 4.23-14.11                       | 0.20-0.40                | 0.0-2.9         | 0.5-4.0        | .32             | .37   |       |                        |                        |
|                          | 23-60 | ---  | ---  | 10-18 | 1.60-1.90          | 0.00-1.41                        | 0.05-0.10                | 0.0-2.9         | 0.0-0.5        | .32             | .37   |       |                        |                        |
| RaA:<br>Red Hook         | 0-3   | ---  | ---  | 8-18  | 1.10-1.40          | 4.23-14.11                       | 0.14-0.19                | 0.0-2.9         | 3.0-12         | .32             | .32   | 5     | 5                      | 56                     |
|                          | 3-23  | ---  | ---  | 5-18  | 1.25-1.55          | 4.23-14.11                       | 0.04-0.17                | 0.0-2.9         | ---            | .24             | .28   |       |                        |                        |
|                          | 23-60 | ---  | ---  | 5-18  | 1.45-1.65          | 1.41-14.11                       | 0.04-0.11                | 0.0-2.9         | ---            | .17             | .24   |       |                        |                        |
| Atherton                 | 0-7   | ---  | ---  | 15-27 | 1.10-1.40          | 4.23-14.11                       | 0.16-0.21                | 0.0-2.9         | 5.0-20         | .37             | .37   | 5     | 6                      | 48                     |
|                          | 7-30  | ---  | ---  | 18-35 | 1.25-1.55          | 4.23-14.11                       | 0.10-0.19                | 0.0-2.9         | 0.0-2.0        | .28             | .32   |       |                        |                        |
|                          | 30-60 | ---  | ---  | 15-35 | 1.45-1.65          | 4.23-42.34                       | 0.05-0.12                | 0.0-2.9         | 0.0-1.0        | .28             | .32   |       |                        |                        |
| RaB:<br>Red Hook         | 0-3   | ---  | ---  | 8-18  | 1.10-1.40          | 4.23-14.11                       | 0.14-0.19                | 0.0-2.9         | 3.0-12         | .32             | .32   | 5     | 5                      | 56                     |
|                          | 3-23  | ---  | ---  | 5-18  | 1.25-1.55          | 4.23-14.11                       | 0.04-0.17                | 0.0-2.9         | ---            | .24             | .28   |       |                        |                        |
|                          | 23-60 | ---  | ---  | 5-18  | 1.45-1.65          | 1.41-14.11                       | 0.04-0.11                | 0.0-2.9         | ---            | .17             | .24   |       |                        |                        |

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## Physical Properties of the Soils - Continued

Aroostook County, Maine, Southern Part

| Map Symbol<br>and Soil Name | Depth | Sand | Silt | Clay  | Moist Bulk Density | Saturated Hydraulic Conductivity | Available Water Capacity | Linear Extensi- | Organic Matter | Erosion Factors |     |     | Wind Erodi-<br>bility Group | Wind Erodi-<br>bility Index |
|-----------------------------|-------|------|------|-------|--------------------|----------------------------------|--------------------------|-----------------|----------------|-----------------|-----|-----|-----------------------------|-----------------------------|
|                             |       |      |      |       |                    |                                  |                          |                 |                | In              | Pct | Pct | Kw Kw                       | Kf Kf                       |
| RaB:<br>Atherton            | 0-7   | ---  | ---  | 15-27 | 1.10-1.40          | 4.23-14.11                       | 0.16-0.21                | 0.0-2.9         | 5.0-20         | .37             | .37 | 5   | 6                           | 48                          |
|                             | 7-30  | ---  | ---  | 18-35 | 1.25-1.55          | 4.23-14.11                       | 0.10-0.19                | 0.0-2.9         | 0.0-2.0        | .28             | .32 |     |                             |                             |
|                             | 30-60 | ---  | ---  | 15-35 | 1.45-1.65          | 4.23-42.34                       | 0.05-0.12                | 0.0-2.9         | 0.0-1.0        | .28             | .32 |     |                             |                             |
| SgA:<br>Stetson             | 0-10  | ---  | ---  | 4-9   | 1.00-1.30          | 4.23-42.34                       | 0.09-0.25                | 0.0-2.9         | 1.0-5.0        | .10             | .17 | 4   | 7                           | 38                          |
|                             | 10-18 | ---  | ---  | 2-8   | 1.00-1.30          | 4.23-42.34                       | 0.08-0.18                | 0.0-2.9         | 1.0-4.0        | .10             | .15 |     |                             |                             |
|                             | 18-40 | ---  | ---  | 0-3   | 1.15-1.45          | 4.23-42.34                       | 0.05-0.11                | 0.0-2.9         | 0.5-2.0        | .10             | .15 |     |                             |                             |
|                             | 40-60 | ---  | ---  | 0-2   | 1.40-1.65          | 42.34-141.14                     | 0.01-0.06                | 0.0-2.9         | 0.0-0.5        | .05             | .17 |     |                             |                             |
| SgB:<br>Stetson             | 0-10  | ---  | ---  | 4-9   | 1.00-1.30          | 4.23-42.34                       | 0.09-0.25                | 0.0-2.9         | 1.0-5.0        | .10             | .17 | 4   | 7                           | 38                          |
|                             | 10-18 | ---  | ---  | 2-8   | 1.00-1.30          | 4.23-42.34                       | 0.08-0.18                | 0.0-2.9         | 1.0-4.0        | .10             | .15 |     |                             |                             |
|                             | 18-40 | ---  | ---  | 0-3   | 1.15-1.45          | 4.23-42.34                       | 0.05-0.11                | 0.0-2.9         | 0.5-2.0        | .10             | .15 |     |                             |                             |
|                             | 40-60 | ---  | ---  | 0-2   | 1.40-1.65          | 42.34-141.14                     | 0.01-0.06                | 0.0-2.9         | 0.0-0.5        | .05             | .17 |     |                             |                             |
| ThB:<br>Thorndike           | 0-6   | ---  | ---  | 5-10  | 1.00-1.30          | 4.23-14.11                       | 0.12-0.24                | 0.0-2.9         | 2.0-8.0        | .20             | .28 | 1   | 7                           | 38                          |
|                             | 6-19  | ---  | ---  | 5-10  | 1.00-1.30          | 4.23-14.11                       | 0.09-0.22                | 0.0-2.9         | 0.5-3.0        | .17             | .24 |     |                             |                             |
|                             | 19-23 | ---  | ---  | ---   | ---                | 0.07-141.14                      | ---                      | ---             | ---            | ---             | --- |     |                             |                             |
| ThC:<br>Thorndike           | 0-6   | ---  | ---  | 5-10  | 1.00-1.30          | 4.23-14.11                       | 0.12-0.24                | 0.0-2.9         | 2.0-8.0        | .20             | .28 | 1   | 7                           | 38                          |
|                             | 6-19  | ---  | ---  | 5-10  | 1.00-1.30          | 4.23-14.11                       | 0.09-0.22                | 0.0-2.9         | 0.5-3.0        | .17             | .24 |     |                             |                             |
|                             | 19-23 | ---  | ---  | ---   | ---                | 0.07-141.14                      | ---                      | ---             | ---            | ---             | --- |     |                             |                             |
| ThD:<br>Thorndike           | 0-6   | ---  | ---  | 5-10  | 1.00-1.30          | 4.23-14.11                       | 0.12-0.24                | 0.0-2.9         | 2.0-8.0        | .20             | .28 | 1   | 7                           | 38                          |
|                             | 6-17  | ---  | ---  | 5-10  | 1.00-1.30          | 4.23-14.11                       | 0.09-0.22                | 0.0-2.9         | 0.5-3.0        | .17             | .24 |     |                             |                             |
|                             | 17-21 | ---  | ---  | ---   | ---                | 0.07-141.14                      | ---                      | ---             | ---            | ---             | --- |     |                             |                             |
| ThE:                        |       |      |      |       |                    |                                  |                          |                 |                |                 |     |     |                             |                             |

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## Physical Properties of the Soils - Continued

Aroostook County, Maine, Southern Part

| Map Symbol<br>and Soil Name | Depth | Sand | Silt | Clay  | Moist Bulk Density | Saturated Hydraulic Conductivity | Available Water Capacity | Linear Extensi- | Organic Matter | Erosion Factors |     |     | Wind Erodi-<br>bility Group | Wind Erodi-<br>bility Index |
|-----------------------------|-------|------|------|-------|--------------------|----------------------------------|--------------------------|-----------------|----------------|-----------------|-----|-----|-----------------------------|-----------------------------|
|                             |       |      |      |       |                    |                                  |                          |                 |                | In              | Pct | Pct | Kw Kw                       | Kf Kf                       |
| ThE:<br>Thorndike           | 0-2   | ---  | ---  | 5-10  | 1.00-1.30          | 4.23-14.11                       | 0.12-0.24                | 0.0-2.9         | 2.0-8.0        | .20             | .28 | 1   | 7                           | 38                          |
|                             | 2-14  | ---  | ---  | 5-10  | 1.00-1.30          | 4.23-14.11                       | 0.09-0.22                | 0.0-2.9         | 0.5-3.0        | .17             | .24 |     |                             |                             |
|                             | 14-18 | ---  | ---  | ---   | ---                | 0.07-141.14                      | ---                      | ---             | ---            | ---             | --- |     |                             |                             |
| TkB:<br>Thorndike           | 0-2   | ---  | ---  | 5-10  | 0.90-1.20          | 4.23-14.11                       | 0.12-0.22                | 0.0-2.9         | 0.0-2.0        | .17             | .28 | 1   | 8                           | 0                           |
|                             | 2-18  | ---  | ---  | 5-10  | 1.00-1.30          | 4.23-14.11                       | 0.09-0.22                | 0.0-2.9         | 0.5-4.0        | .17             | .24 |     |                             |                             |
|                             | 18-22 | ---  | ---  | ---   | ---                | 0.07-141.14                      | ---                      | ---             | ---            | ---             | --- |     |                             |                             |
| TkC:<br>Thorndike           | 0-2   | ---  | ---  | 5-10  | 0.90-1.20          | 4.23-14.11                       | 0.12-0.22                | 0.0-2.9         | 0.0-2.0        | .17             | .28 | 1   | 8                           | 0                           |
|                             | 2-16  | ---  | ---  | 5-10  | 1.00-1.30          | 4.23-14.11                       | 0.09-0.22                | 0.0-2.9         | 0.5-4.0        | .17             | .24 |     |                             |                             |
|                             | 16-20 | ---  | ---  | ---   | ---                | 0.07-141.14                      | ---                      | ---             | ---            | ---             | --- |     |                             |                             |
| TkD:<br>Thorndike           | 0-2   | ---  | ---  | 5-10  | 0.90-1.20          | 4.23-14.11                       | 0.12-0.22                | 0.0-2.9         | 0.0-2.0        | .17             | .28 | 1   | 8                           | 0                           |
|                             | 2-14  | ---  | ---  | 5-10  | 1.00-1.30          | 4.23-14.11                       | 0.09-0.22                | 0.0-2.9         | 0.5-4.0        | .17             | .24 |     |                             |                             |
|                             | 14-18 | ---  | ---  | ---   | ---                | 0.07-141.14                      | ---                      | ---             | ---            | ---             | --- |     |                             |                             |
| TkE:<br>Thorndike           | 0-2   | ---  | ---  | 5-10  | 0.90-1.20          | 4.23-14.11                       | 0.12-0.22                | 0.0-2.9         | 0.0-2.0        | .17             | .28 | 1   | 8                           | 0                           |
|                             | 2-12  | ---  | ---  | 5-10  | 1.00-1.30          | 4.23-14.11                       | 0.09-0.22                | 0.0-2.9         | 0.5-4.0        | .17             | .24 |     |                             |                             |
|                             | 12-16 | ---  | ---  | ---   | ---                | 0.07-141.14                      | ---                      | ---             | ---            | ---             | --- |     |                             |                             |
| TsB:<br>Thorndike           | 0-2   | ---  | ---  | 5-10  | 0.90-1.20          | 4.23-14.11                       | 0.12-0.22                | 0.0-2.9         | 0.0-2.0        | .17             | .28 | 1   | 8                           | 0                           |
|                             | 2-19  | ---  | ---  | 5-10  | 1.00-1.30          | 4.23-14.11                       | 0.09-0.22                | 0.0-2.9         | 0.5-4.0        | .17             | .24 |     |                             |                             |
|                             | 19-23 | ---  | ---  | ---   | ---                | 0.07-141.14                      | ---                      | ---             | ---            | ---             | --- |     |                             |                             |
| Howland                     | 0-2   | ---  | ---  | 5-13  | 0.70-1.00          | 4.23-14.11                       | 0.15-0.25                | 0.0-2.9         | 0.0-2.0        | .28             | .28 | 3   | 8                           | 0                           |
|                             | 2-23  | ---  | ---  | 10-18 | 1.30-1.60          | 4.23-14.11                       | 0.20-0.40                | 0.0-2.9         | 0.5-4.0        | .32             | .37 |     |                             |                             |
|                             | 23-60 | ---  | ---  | 10-18 | 1.60-1.90          | 0.00-1.41                        | 0.05-0.10                | 0.0-2.9         | 0.0-0.5        | .32             | .37 |     |                             |                             |

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## Physical Properties of the Soils - Continued

Aroostook County, Maine, Southern Part

| Map Symbol<br>and Soil Name | Depth | Sand | Silt | Clay  | Moist Bulk Density | Saturated Hydraulic Conductivity | Available Water Capacity | Linear Extensi- | Organic Matter | Erosion Factors |       |       | Wind Erodi-<br>bility Group | Wind Erodi-<br>bility Index |  |
|-----------------------------|-------|------|------|-------|--------------------|----------------------------------|--------------------------|-----------------|----------------|-----------------|-------|-------|-----------------------------|-----------------------------|--|
|                             |       | In   | Pct  | Pct   | Pct                | g/cc                             | micro m/sec              | In/In           | bility Pct     | Pct             | Kw Kw | Kf Kf | T T                         |                             |  |
| TsB:                        |       |      |      |       |                    |                                  |                          |                 |                |                 |       |       |                             |                             |  |
| TsC:                        |       |      |      |       |                    |                                  |                          |                 |                |                 |       |       |                             |                             |  |
| Thorndike                   | 0-2   | ---  | ---  | 5-10  | 0.90-1.20          | 4.23-14.11                       | 0.12-0.22                | 0.0-2.9         | 0.0-2.0        | .17             | .28   | 1     | 8                           | 0                           |  |
|                             | 2-19  | ---  | ---  | 5-10  | 1.00-1.30          | 4.23-14.11                       | 0.09-0.22                | 0.0-2.9         | 0.5-4.0        | .17             | .24   |       |                             |                             |  |
|                             | 19-23 | ---  | ---  | ---   | ---                | 0.07-141.14                      | --                       | ---             | ---            | ---             | ---   |       |                             |                             |  |
| Howland                     | 0-2   | ---  | ---  | 5-13  | 0.70-1.00          | 4.23-14.11                       | 0.15-0.25                | 0.0-2.9         | 0.0-2.0        | .28             | .28   | 3     | 8                           | 0                           |  |
|                             | 2-23  | ---  | ---  | 10-18 | 1.30-1.60          | 4.23-14.11                       | 0.20-0.40                | 0.0-2.9         | 0.5-4.0        | .32             | .37   |       |                             |                             |  |
|                             | 23-60 | ---  | ---  | 10-18 | 1.60-1.90          | 0.00-1.41                        | 0.05-0.10                | 0.0-2.9         | 0.0-0.5        | .32             | .37   |       |                             |                             |  |
| Wn:                         |       |      |      |       |                    |                                  |                          |                 |                |                 |       |       |                             |                             |  |
| Winooski                    | 0-11  | ---  | ---  | 2-14  | 0.95-1.35          | 4.23-14.11                       | 0.20-0.35                | 0.0-2.9         | 2.0-8.0        | .32             | .32   | 5     | 3                           | 86                          |  |
|                             | 11-36 | ---  | ---  | 2-10  | 1.10-1.50          | 4.23-14.11                       | 0.18-0.40                | 0.0-2.9         | 0.0-1.0        | .49             | .49   |       |                             |                             |  |

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